

Product Information

Antifection inhibitor Aztreonam, Purity $\geq 98\%$

Cat. No.: X24-06-ZQ888

Size: 50 mg; 100 mg; 200 mg; 500 mg

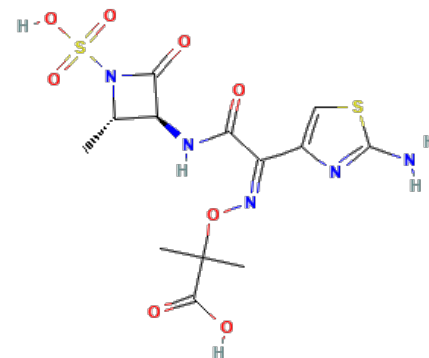
MDL: MFCD00072145

CAS Number: 78110-38-0

Compound CID: 5742832

Synonym: 78110-38-0; Antifection inhibitor; Monobactam; SQ 26776; Squibb 26776

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Aztreonam, soluble in DMSO and water and insoluble in ethanol, has strong immunosuppressant properties. It targets β -lactam.
Molecular Weight	435.4
Molecular Formula	$C_{13}H_{17}N_5O_8S_2$
Targets	β -lactam
IUPAC Name	2-[(Z)-[1-(2-amino-1,3-thiazol-4-yl)-2-[[[(2S,3S)-2-methyl-4-oxo-1-sulfoazetid-3-yl]amino]-2-oxoethylidene]amino]oxy-2-methylpropanoic acid
InChI	InChI=1S/C13H17N5O8S2/c1-5-7(10(20)18(5)28(23,24)25)16-9(19)8(6-4-27-12(14)15-6)17-26-13(2,3)11(21)22/h4-5,7H,1-3H3,(H2,14,15)(H,16,19)(H,21,22)(H,23,24,25)/b17-8-/t5-,7-/m0/s1
InChI Key	WZPBZJONDBGPKJ-VEHQQRBSSA-N
Canonical SMILES	<chem>CC1C(C(=O)N1S(=O)(=O)O)NC(=O)C(=NOC(C)(C)C(=O)O)C2=CSC(=N2)N</chem>
Isomeric SMILES	<chem>C[C@H]1[C@@H](C(=O)N1S(=O)(=O)O)NC(=O)/C(=N\OC(C)(C)C(=O)O)/C2=CSC(=N2)N</chem>
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 84 mg/mL (192.91 mM); Water: 11 mg/mL (25.26 mM); Ethanol: Insoluble
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade
Applications	Aztreonam is used in microbiological research as a monobactam antibiotic effective against gram-



negative bacterial infections by inhibiting cell wall synthesis.

Storage

Store at -20°C, and keep desiccated.
